



Docket No.: 5000-0193PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Jordi TORMO I BLASCO et al.

Application No.: 10/590,326

Filed: August 23, 2006

For: 5,6-DIALKYL-7-AMINOTRIAZOLOPYRIMIDINES,

THEIR PREPARATION AND THEIR USE FOR CONTROLLING HARMFUL FUNGI, AND

COMPOSITIONS COMPRISING THESE COMPOUNDS

Confirmation No.: 8108

Art Unit: N/A

Examiner: Not Yet Assigned

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Subsequent to the filing of the above-identified application on August 23, 2006, attached hereto is an English translation of the International Preliminary Examination Report (Form PCT/IPEA/409) that should be made of record in the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Bv

Dated: September 28, 2007

Respectfully submitted,

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PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000055416 International application No. PCT/EP2005/002424		FOR FURTHER	RACTION	See Form PCT/IPEA/416 Priority date (day/month/year)				
		International filing	International filing date (day/month/year) 08.03.2005					
		08.03.20		10.03.2004				
	onal Patent Classification 0487/04	(IPC) or national classification a	nd IPC					
Applicant BASE	F Aktiengese	ellschaft						
		ational preliminary examination asmitted to the applicant accordin		s International Preliminary Examining Authority				
2.	This REPORT consists of	of a total of	sheets, includ	sheets, including this cover sheet.				
3.	This report is also accompanied by ANNEXES, comprising:							
	a. (sent to the a	pplicant and to the International	Burean) a total of 4	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/o sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	L the disc			onsiders contain an amendment that goes beyond ed in item 4 of Box No. I and the Supplemental				
	Box.							
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
		in computer readable form only the Administrative Instructions).	as indicated in the Supp	, containing a sequence listing and/or tables demental Box Relating to Sequence Listing (see				
4.	This report contains indi	cations relating to the following i	tems:					
	Box No. I	Basis of the report						
	Box No. II	Priority						
	Box No. III	Non-establishment of opinion w	ith regard to novelty, inve	regard to novelty, inventive step and industrial applicability				
	Box No. 1V	Lack of unity of invention						
	Box No. V	·	cle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement					
	Box No. VI	Certain documents cited						
	Box No. VII	Certain defects in the internation	onal application					
	Box No. VIII	Certain observations on the international application						
Date of submission of the demand			Date of completion of	this report				
Name and mailing address of the IPEA/EP			Authorized officer					
			(m. 1)					

International application No.

PCT/EP2005/002424

Box No. I	Basis of the report							
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 								
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
	international search (Rule 12.3 and 23.1(b))							
	publication of the international application (Rule 12.	4)						
	international preliminary examination (Rule 55.2 and							
rece	n regard to the elements of the international application. this iving Office in response to an invitation under Article 14 a report):	s report is based on (replacement share referred to in this report as "or	neets which have been furnished to the iginally filed" and are not annexed to					
	the international application as originally filed/furnished	•						
\boxtimes	the description:							
	pages 1-36		as originally filed/furnished					
	page s*	received by this Authority on						
	page s*	received by this Authority on						
\boxtimes	the claims:							
	nos.		as originally filed/furnished					
	nos.*	as amended (together	with any statement) under Article 19					
	nos.* 1-16		14.02.2006 with letter					
	nos.*	_						
L	the drawings:							
	sheets		as originally filed/furnished					
•	sheets**							
	sheets*	received by this Authority on						
	a sequence listing and/or any related table(s) - see Supple	mental Box Relating to Sequence Li	isting.					
3.	The amendments have resulted in the cancellation of:							
	the description. pages							
	the claims, nos.							
	the drawings, sheets/figs							
	the sequence listing (specify):							
	any table(s) related to sequence listing (specify):							
4.	This report has been established as if (some of) the ame they have been considered to go beyond the disclosure as	ndments annexed to this report and	listed below had not been made, since					
	the description, pages							
	the claims, nos.							
	the drawings, sheets/figs							
	the sequence listing (specify): any table(s) related to sequence listing (specify):							
	•		, , , , , , , , , , , , , , , , , , ,					
* If	* If item 4 applies, some or all of those sheets may be marked "superseded,"							

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Bo	x No. IV Lack of unity of invention
<u> </u>	
] I.	In response to the invitation to restrict or pay additional fees the applicant has: restricted the claims.
	paid additional fees.
	paid additional fees under protest.
	neither restricted the claims nor paid additional fees.
2.	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
	complied with.
	not complied with for the following reasons:
	See supplemental sheet
	\cdot
4.	Consequently, this report has been established in respect of the following parts of the international application:
	all parts.
	the parts relating to claims Nos.

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citations and explanations sup			oporting such statement	
1.	Statement			
	Novelty (N)	Claims	1, 2, 4-16	_ YES
		Claims	3	_ NO
	Inventive step (IS)	Claims	1, 2, 4-16	YES
		Claims	3	_ NO
	Industrial applicability (IA)	Claims	1-16	YES
		Claims		NO
l .				

2. Citations and explanations (Rule 70.7)

D1: EP-A-0 141 317 (BASF AKTIENGESELLSCHAFT)

15 May 1985 (1985-05-15)

D2: EP-A-0 215 382 (BASF AKTIENGESELLSCHAFT)

25 March 1987 (1987-03-25)

Novelty

The subject matter of dependent claim 3 overlaps with the subject matter of D1, the region of overlapping in the terminology of D1 being definable as follows: A = nitrogen, R^1 = alkyl substituted by halogen (F, C1, Br), R^2 = alkyl, R^3 = H (cf. page 1 lines 4, 5; page 1 formula I, page 1 lines 23, 26, 32, 33; page 1 lines 39-41; page 2 line 7 - page 4 line 9, page 10 line 34 - page 11 line 2).

Therefore, at the present time, no novelty can be acknowledged for the subject matter of the dependent claim 3 and of the claims 4-16 which follow where they relate to claim 3.

Inventive step

For the unanticipated subject matter of claims 1 and 2 and of claims 4-16, where they do not relate to claim 3,

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1 and D2 (cf. page 1 column 2 line 7 - column 1 line 34; page 1 formula I; page 2 column 2 lines 29-31) may equally be considered to be the closest prior art, since they solve the same problem and both approximate structurally to the present formula I from claim 1.

The distinguishing features between the novel subject matter of the claims and D1 and D2 may be considered to be the presence of

- compounds of the formula I in which $R^c=CN$ or C_3-C_6- cycloalkyl (first invention) and
- compounds of the formula I in which $R^c = NO_2$ or OH (second invention).

In the absence of material proving a surprising technical effect which is connected to these features, the problem underlying the novel subject matter of the claims can merely be considered that of providing further fungicidal compounds and a process for their preparation.

The claimed solution to this very general problem consisted in the modification of the compounds known from D1 or D2 by introducing a further substituent $R^{\rm c}$ selected from

- CN or C₃-C₆-cycloalkyl (first invention) or
- NO_2 or OH (second invention).

Since none of these solutions in the prior art, either taken alone or viewed in combination, has been foreshadowed in the prior art, the presence of an inventive step has to be acknowledged for the novel subject matter of the claims, even in the absence of a

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

surprising technical effect.

Industrial applicability

There is no doubt that the subject matter of the present claims 1-16 is industrially applicable.

Formal comments

Claims 1-16 are based completely on the original claims 1-16 and are therefore admissible under PCT Article 19(2) and 34(2)(b).

In dependent claim 3, the feature " R^c " is optional. The claim therefore also encompasses the possibility that R^2 bears no further substituents. The scope of protection of claim 3 therefore goes over and above the scope of protection of the main independent claim 1.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Box IV

The European patent application EP-A-0141317, filed by the applicant, discloses fungicidally active 5,6-dialkyl-triazolopyrimidines (see Box V, "Novelty" section). These compounds have the same structural feature in common as the compounds of the formula I of the present claim, specifically triazolopyrimidine which is substituted by alkyl in the 5- and 6-position.

The distinguishing feature between the present compounds of the formula I and the compounds from D1 is therefore the list of the specific substituents of the R^2 group, namely

- compounds of the formula I in which $R^c = \! CN$ or $C_3 C_6 -$ cycloalkyl and
 - compounds of the formula I in which $R^c=NO_2$ or OH.

However, with the presence of two different distinguishing features from D1 and with the absence of a common structural feature, the subject matter of the present claim 1 can no longer be considered to have unity under PCT Rule 13 and accordingly divides into two different inventions (lack of unity a posteriori), which are as follows:

- provision of fungicidal compounds of the formula I in which $R^c=CN$ or C_3-C_6 -cycloalkyl (first invention) and
- provision of fungicidal compounds of the formula I in which $\mbox{R}^c\mbox{=}\mbox{NO}_2$ or OH (second invention).